## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

International Bureau



533459 

(43) International Publication Date 21 May 2004 (21.05.2004)

**PCT** 

(10) International Publication Number WO 2004/041196 A2

(51) International Patent Classification7:

**A61K** 

(21) International Application Number:

PCT/US2003/034787

(22) International Filing Date:

3 November 2003 (03.11.2003)

(25) Filing Language:

**English** 

(26) Publication Language:

English

(30) Priority Data: 60/423,380

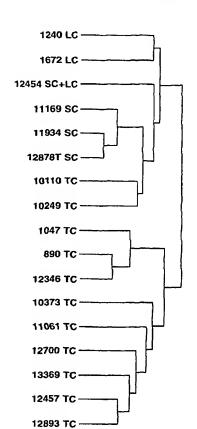
4 November 2002 (04.11.2002) US

(71) Applicants (for all designated States except US): THE UNITED STATES OF AMERICA, represented by THE SECRETARY OF HEALTH AND HUMAN SER-VICES, NIH [US/US]; Office of Technology Transfer, Suite 325, 6011 Executive Boulevard, Rockville, MD 20852 (US). THE UNITED STATES OF AMERICA, as represented by THE SECRETARY OF DEFENSE [US/US]; Armed Forces Institute of Pathology, 6825 16th Street NW, Washington, DC 20306-6000 (US).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HARRIS, Curtis, C. [US/US]; P.O. Box 77, 4720 Waverly Avenue, Garrett Park, MD 20896-0077 (US). HE, Ping [US/US]; 7305 Bannockburn Ridge Ct, Bethesda, MD 20817 (US). VARTICOV-SKI, Lyuba [US/US]; 6506 Cardigan Road, Bethesda, MD 20817 (US). TRAVIS, William, D. [US/US]; P.O. BOX 2821, Kensington, MD 20891 (US).
- (74) Agent: JEFFREY, I., Auerbach; Liniak, Berenato & White, LLC, 6550 Rock Spring Drive, Suit 240, Bethesda, MD 20817 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,

[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS OF NEUROENDOCRINE LUNG CANCER



(57) Abstract: This invention relates to methods and compositions for the diagnosis of neuroendocrine lung cancers. In particular, the invention concerns the use of cDNA microarrays to facilitate the differential diagnosis of neuroendocrine tumor types.

## WO 2004/041196 A2

I CORIC ENGLISH IN EIGHE NEAL ERAN COM RERR NA NA RANN AN AN AIRD NEAL CHAIR CHAIR CHAIR CORN CORNAIN ANN AN A

MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,

SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.